



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

WinDoor, Inc.  
7500 Amsterdam Drive  
Orlando, FL 32832

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

### DESCRIPTION: Series "9020" Aluminum Fixed Window – L.M.I.

**APPROVAL DOCUMENT:** Drawing No. 08-01634, titled "9020 Picture Window – Large Missile Impact" sheets 1, 2, 2A and 3 through 11 of 11, dated 06/20/12, with revision D dated 09/04/14, prepared by manufacturer, signed and sealed by Luis R. Lomas, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA# 14-0107.11 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.



*Handwritten signature and date: 10/30/14*

NOA No. 14-0916.12  
Expiration Date: January 17, 2018  
Approval Date: November 06, 2014  
Page 1

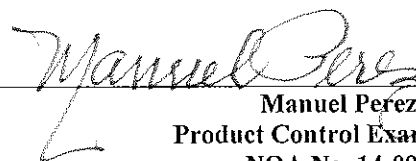
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **08-01634**, titled "9020 Picture Window - Large Missile Impact", sheets 1, 2, 2A and 3 through 11 of 11, dated 06/20/12, with revision D dated 09/04/14, prepared by manufacturer, signed and sealed by Luis R. Lomas, P.E.

**B. TESTS**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94  
along with installation diagram of an aluminum fixed window, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3774-1**, Specimens 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10, dated 04/17/12, revised on 07/22/13 and updated on 09/27/13, signed and sealed by Gerald J. Ferrara, P.E.  
*(Submitted under NOA# 12-0627.05)*
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94  
along with installation diagram of an aluminum fixed window, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3774-2**, Specimens 1, 2, 3, 4, 5, 6 and 7, dated 04/17/12, signed and sealed by Gerald J. Ferrara, P.E.  
*(Submitted under NOA# 12-0627.05)*
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94  
along with installation diagram of an aluminum fixed window, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3774-3**, Specimens 1, 2, 3, 4, 5, 6 and 7, dated 04/17/12, signed and sealed by Gerald J. Ferrara, P.E.  
*(Submitted under NOA# 12-0627.05)*

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 14-0916.12

Expiration Date: January 17, 2018  
Approval Date: November 06, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with **FBC-5<sup>th</sup> Edition (2014)**, dated 06/11/12, 06/18/12, 12/31/13 and updated on 09/10/14, prepared, signed and sealed by Luis R. Lomas, P.E.  
*(Submitted partly under NOA# 12-0627.05)*
2. Glazing complies with **ASTM E1300-04**

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **11-0624.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
2. Test report No. **ATI-60520-106.18**, prepared by Architectural Testing, Inc., dated 11/09/06, with Revision #1 dated 11/29/06, issued to **ENSINGER, Inc.**, for their **Tecatherm® 66 GF Insulbar Thermal Barrier plastic material** per **ASTM D635-98 "Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position"** and **ASTM D2843-99 "Standard Test Method for the Density of Smoke from the Burning Decomposition of Plastics"**, **ASTM D1929-96 (2000)e01 "Standard Test Method for Ignition Properties of Plastics"**, also per **ASTM G 155-00ae1 "Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials"** and **ASTM D638-03 "Standard Test Method for Tensile Properties of Plastics"**, signed and sealed by Joseph A. Reeves, P.E.  
*(Submitted under previous NOA# 14-0107.11)*

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC-5<sup>th</sup> Edition (2014)**, and of no financial interest, dated September 9, 2014, signed and sealed by Luis R. Lomas, P.E.
2. Laboratory compliance letter for Test Reports No. **NCTL-210-3774-1**, **NCTL-210-3774-2**, and **NCTL-210-3774-3**, issued by National Certified Testing Laboratories, dated 04/17/12, all signed and sealed by Gerald J. Ferrara, P.E.  
*(Submitted under NOA# 12-0627.05)*

**G. OTHERS**

1. Notice of Acceptance No. **14-0107.11**, issued to WinDoor, Inc. for their Series "9020" Aluminum Fixed Window - L.M.I., approved on 04/03/14 and expiring on 01/17/18.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 14-0916.12

Expiration Date: January 17, 2018  
Approval Date: November 06, 2014

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED CALL OUTS	10/24/12	R.L.
B	REVISED PER NEW TESTING	10/02/13	R.L.
C	REVISED PER MD COMMENTS	03/13/14	R.L.
D	ADDED GEOMETRIC SHAPES	09/04/14	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL.
4. WHERE SHIM OR BUCK THICKNESS IS LESS THAN 1-1/2" WINDOW UNITS MUST BE ANCHORED THROUGH THE FRAME IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE SECURELY FASTENED DIRECTLY INTO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE MATERIAL.
5. WHERE WOOD BUCK THICKNESS IS 1-1/2" OR GREATER, BUCK SHALL BE SECURELY FASTENED TO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE. WINDOW UNITS MAY BE ANCHORED THROUGH FRAME TO SECURED WOOD BUCK IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
6. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
7. BUCKS SHALL EXTEND BEYOND WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
8. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
9. SHIMS SHALL BE MADE FROM MATERIALS CAPABLE OF SUSTAINING APPLICABLE LOADS, LOCATED AND APPLIED IN A THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
10. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
11. FRAME MATERIAL: ALUMINUM 6063-T6.
12. UNITS MUST BE GLAZED PER ASTM E1300-04, SEE SHEET 6 FOR GLASS OPTIONS.
13. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
14. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #12 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 5/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

15. FOR ANCHORING INTO MASONRY/CONCRETE USE 1/4" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
16. FOR ANCHORING INTO METAL STRUCTURE USE #12 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
17. ALL FASTENERS TO BE CORROSION RESISTANT.
18. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
  - A. WOOD - MINIMUM SPECIFIC GRAVITY OF G=0.42
  - B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
  - C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1' (OR GREATER).
  - D. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 1/8" THICK MINIMUM
19. APPROVED GEOMETRIC SHAPES DIMENSIONS SHALL NOT EXCEED AN AREA OF 50 SQUARE FEET AS TESTED. GEOMETRIC SHAPES ARE NOT LIMITED TO SHAPES SHOWN HEREIN.

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2 - 5	ELEVATIONS AND CHARTS
6 - 7	B.O.M. AND CROSS SECTIONS
8 - 9	INSTALLATION DETAILS
10	COMPONENTS
11	MULLION INSTALLATION DETAILS

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 14-0916-12  
Expiration Date Jan 17, 2018  
By *Manuel Perez*  
Miami Dade Product Control

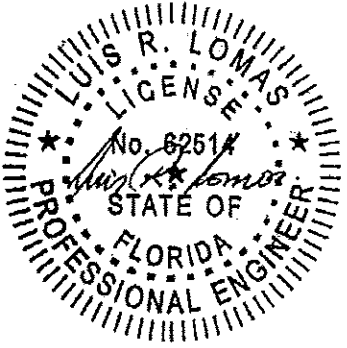
**WinDoor**  
INCORPORATED

7500 AMSTERDAM DRIVE  
ORLANDO, FL 32832  
Phone: 407.481.8400  
Fax: 407.481.0505  
www.windoorinc.com

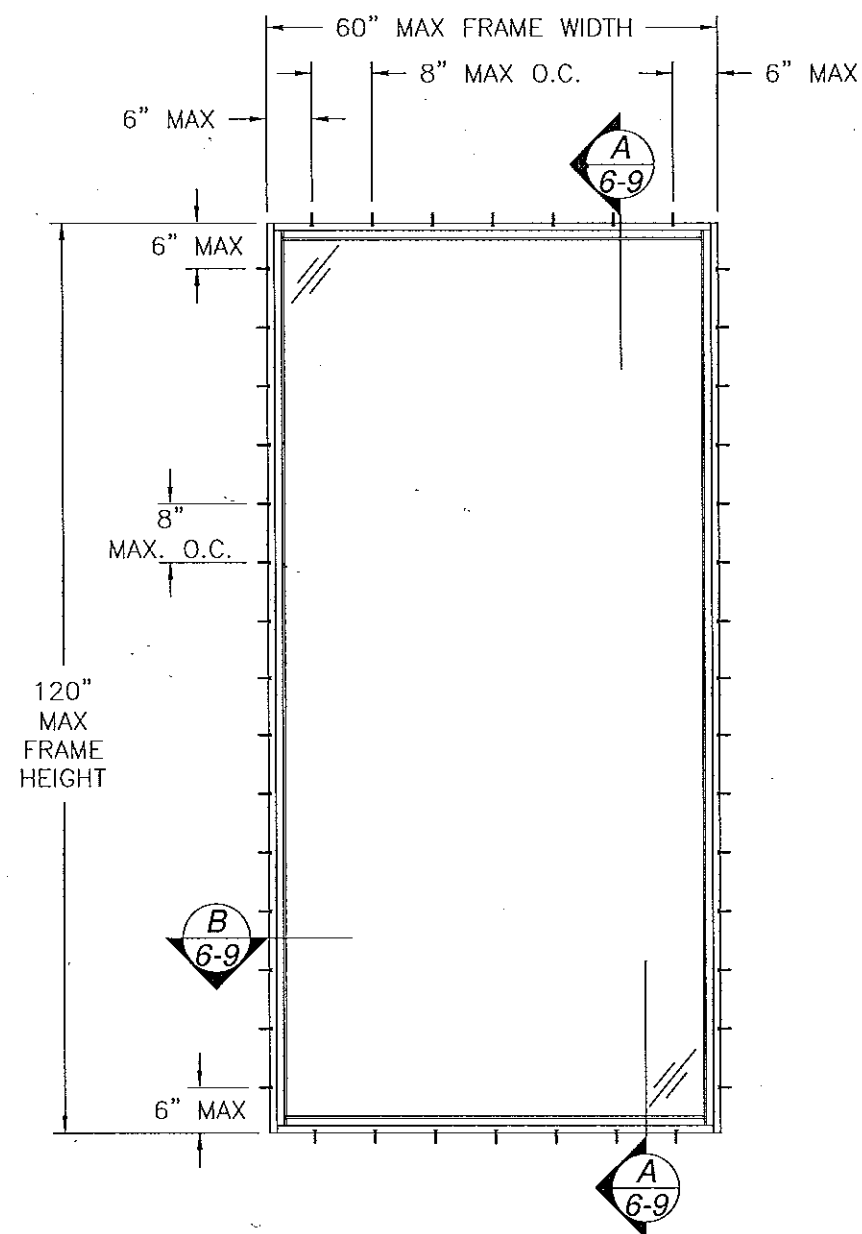
9020 PICTURE WINDOW  
LARGE MISSILE IMPACT  
NOTES

DRAWN: A.P.	DWG NO. 08-01634	REV D
SCALE NTS	DATE 06/20/2012	SHEET 1 OF 11

SIGNED: 10/29/2014



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED CALL OUTS	10/24/12	R.L.
B	REVISED PER NEW TESTING	10/02/13	R.L.
C	REVISED PER MD COMMENTS	03/13/14	R.L.
D	ADDED GEOMETRIC SHAPES	09/04/14	R.L.



**9020 PICTURE WINDOW**  
EXTERIOR VIEW

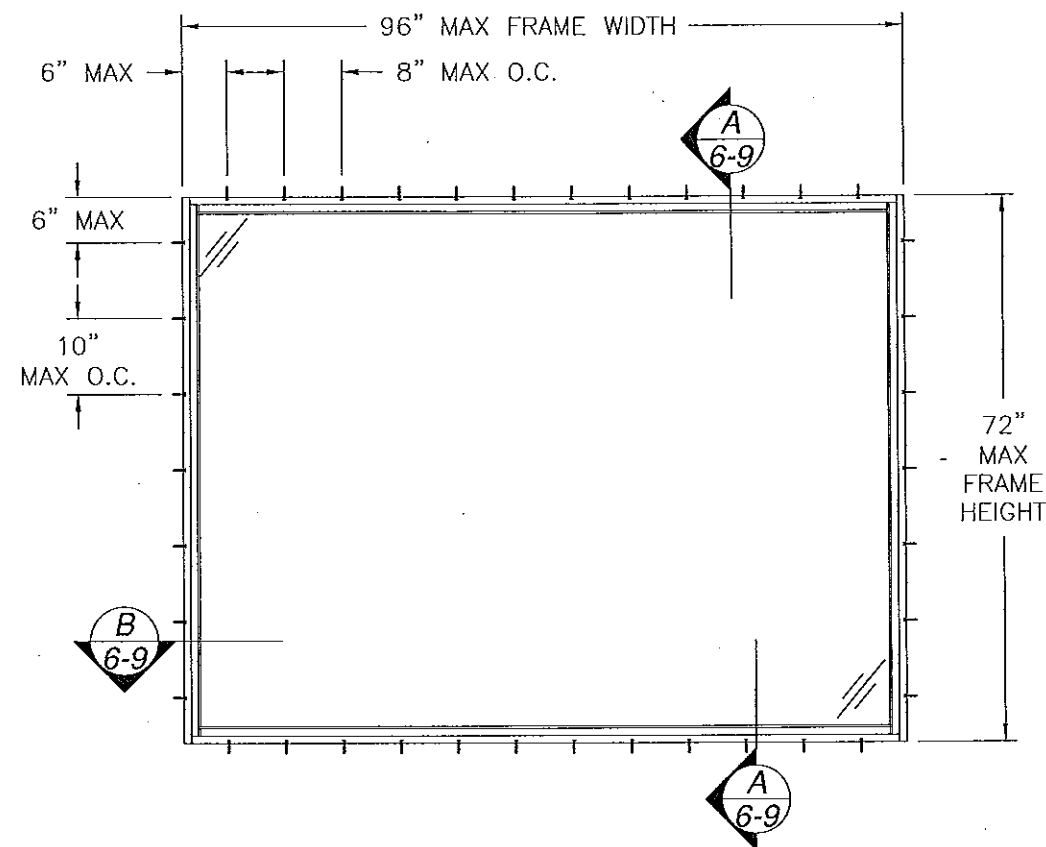
REFER TO CHART #1 & #2 IN SHEET 3 FOR OTHER UNITS RATINGS

DESIGN PRESSURE RATING	IMPACT RATING
$\pm 100.0$ PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ  
WITH GLAZING A

DESIGN PRESSURE RATING	IMPACT RATING
$\pm 90.0$ PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ  
WITH GLAZING B AND C



**9020 PICTURE WINDOW**  
EXTERIOR VIEW

REFER TO CHART #1 & #2 IN SHEET 3 FOR OTHER UNITS RATINGS

DESIGN PRESSURE RATING	IMPACT RATING
$\pm 110.0$ PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ  
WITH GLAZING A, B AND C

PRODUCT REVISED  
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Expiration Date Jan. 17, 2018  
By *Manuel J. [Signature]*  
Miami Dade Product Control

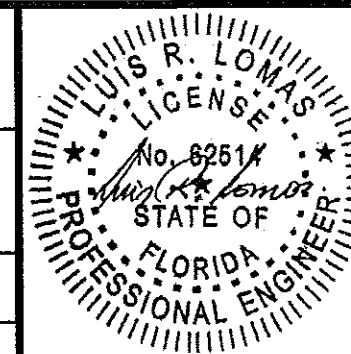
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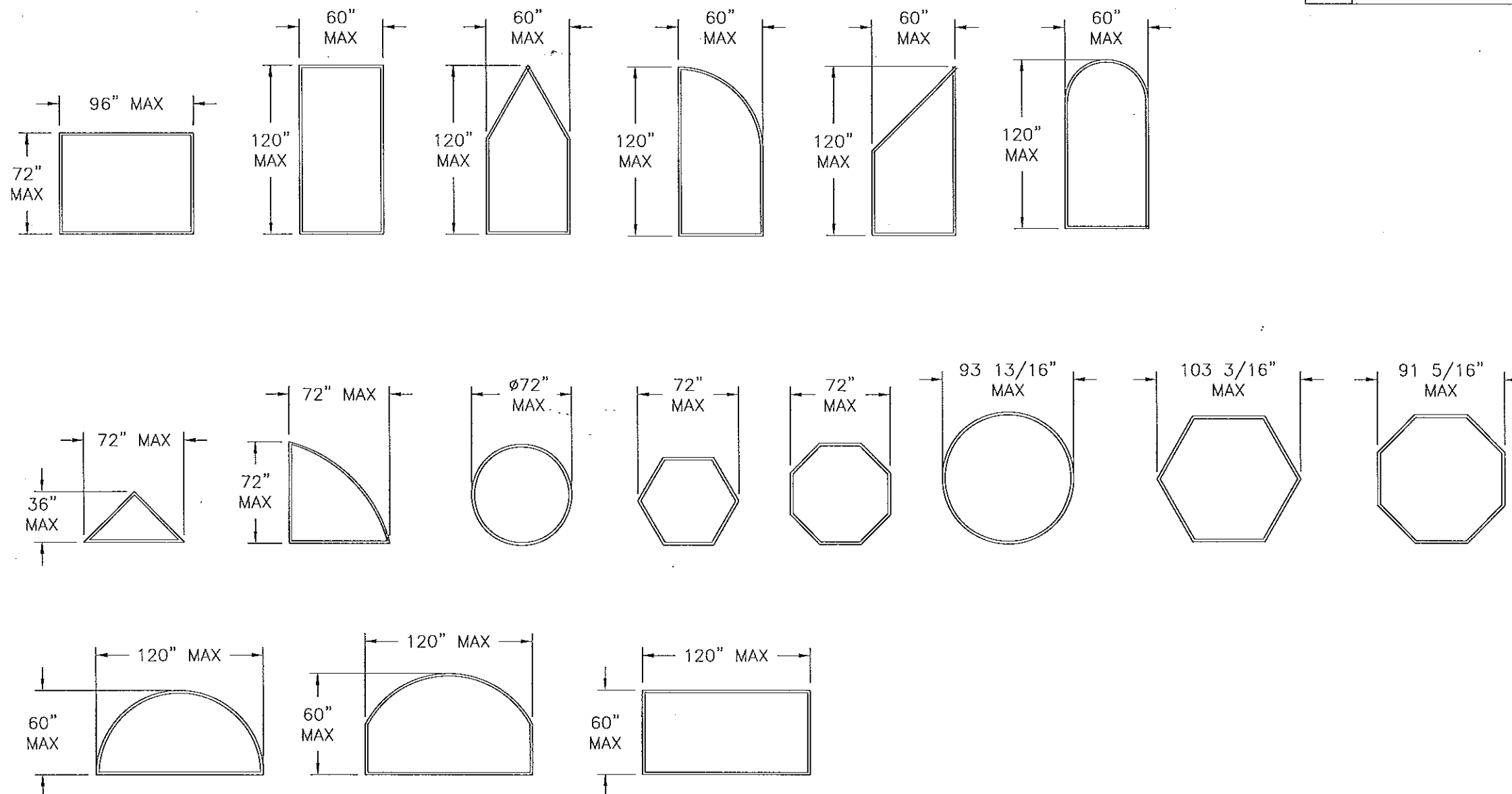
9020 PICTURE WINDOW  
LARGE MISSILE IMPACT  
ELEVATIONS AND CHARTS

DRAWN: A.P.	DWG NO. 08-01634	REV D
SCALE NTS	DATE 06/20/2012	SHEET 2 OF 11

SIGNED: 10/29/2014



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED CALL OUTS	10/24/12	R.L.
B	REVISED PER NEW TESTING	10/02/13	R.L.
C	REVISED PER MD COMMENTS	03/13/14	R.L.
D	ADDED GEOMETRIC SHAPES	09/04/14	R.L.



**APPROVED SHAPES**  
SEE NOTE 19 SHEET 1

SIGNED: 10/29/2014

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 14-0916-12  
Expiration Date Jan 17, 2018  
By *Manuel J. [Signature]*  
Miami/Dade Product Control

<b>WinDoor</b> INCORPORATED		7500 AMSTERDAM DRIVE ORLANDO, FL 32832 Phone: 407.481.8400 Fax: 407.481.0505 <a href="http://www.windoorinc.com">www.windoorinc.com</a>
9020 PICTURE WINDOW LARGE MISSILE IMPACT ELEVATIONS AND CHARTS		
DRAWN: A.P.	DWG NO. 08--01634	REV D
SCALE NTS	DATE 06/20/2012	SHEET 2A OF 11

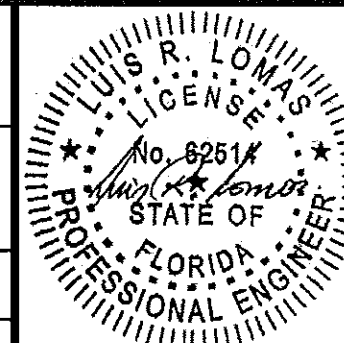


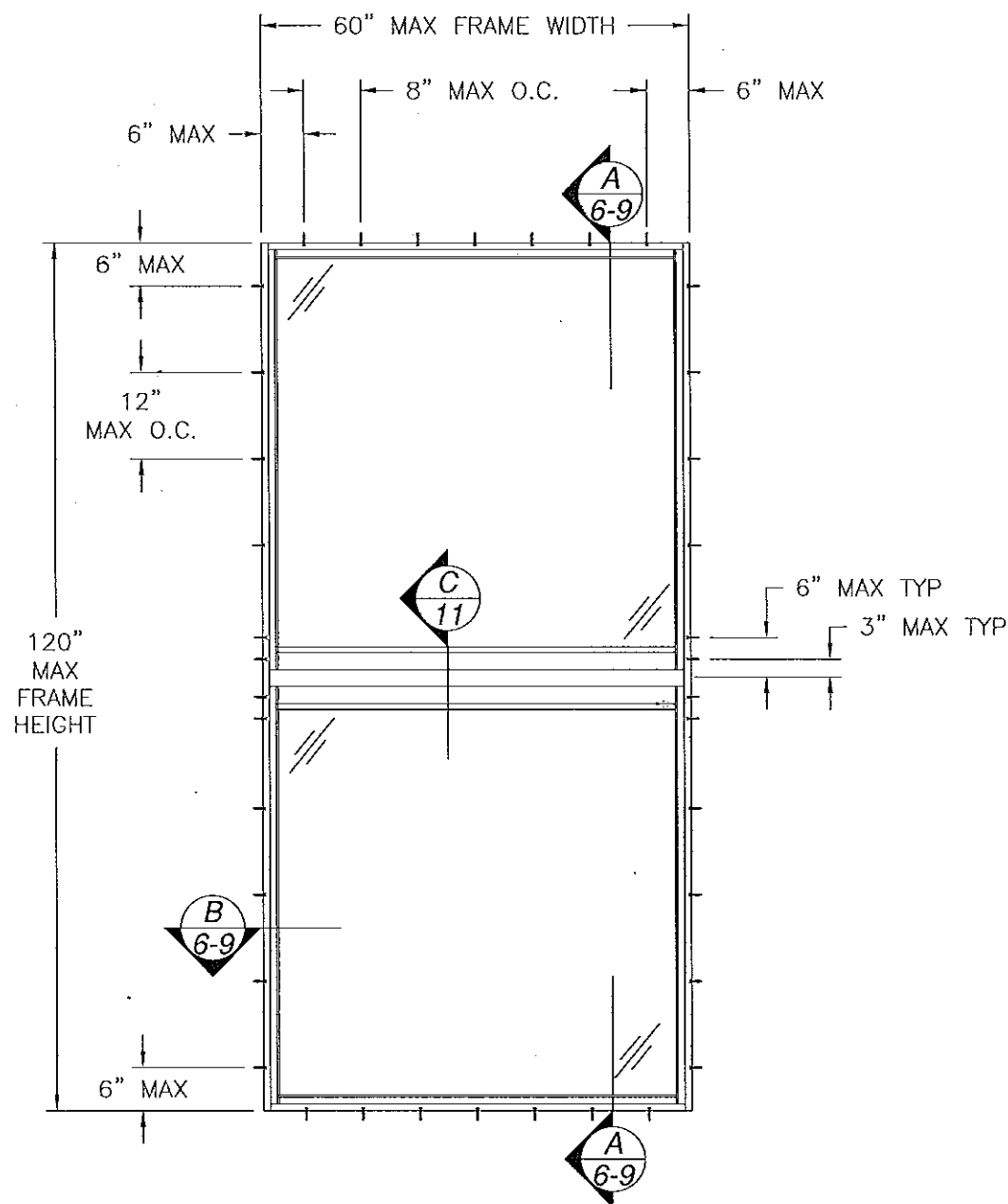
CHART #1

Design pressure rating for units with glazing A (psf)																										
Frame Height (in)	Frame width (in)																									
	24.0		30.0		36.0		42.0		48.0		54.0		60.0		66.0		72.0		78.0		84.0		90.0		96.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
24.0	110.0	147.3	110.0	146.0	110.0	144.7	110.0	143.3	110.0	142.0	110.0	140.7	110.0	139.3	110.0	138.0	110.0	136.7	110.0	135.3	110.0	134.0	110.0	132.7	110.0	131.3
30.0	110.0	146.0	110.0	145.8	110.0	144.2	110.0	142.5	110.0	140.8	110.0	139.2	110.0	137.5	110.0	135.8	110.0	134.2	110.0	132.5	110.0	130.8	110.0	129.2	110.0	127.5
36.0	110.0	144.7	110.0	144.2	110.0	144.0	110.0	142.0	110.0	140.0	110.0	138.0	110.0	136.0	110.0	134.0	110.0	132.0	110.0	130.0	110.0	128.0	110.0	126.0	110.0	124.0
42.0	110.0	143.3	110.0	142.5	110.0	142.0	110.0	141.8	110.0	139.5	110.0	137.2	110.0	134.8	110.0	132.5	110.0	130.2	110.0	127.8	110.0	125.5	110.0	123.2	110.0	120.8
48.0	110.0	142.0	110.0	140.8	110.0	140.0	110.0	139.5	110.0	139.3	110.0	136.7	110.0	134.0	110.0	131.3	110.0	128.7	110.0	126.0	110.0	123.3	110.0	120.7	110.0	118.0
54.0	110.0	140.7	110.0	139.2	110.0	138.0	110.0	137.2	110.0	136.7	110.0	136.5	110.0	133.5	110.0	130.5	110.0	127.5	110.0	124.5	110.0	121.5	110.0	118.5	110.0	115.5
60.0	110.0	139.3	110.0	137.5	110.0	136.0	110.0	134.8	110.0	134.0	110.0	133.5	110.0	133.3	110.0	130.0	110.0	126.7	110.0	123.3	110.0	120.0	110.0	116.7	110.0	113.3
66.0	110.0	138.0	110.0	135.8	110.0	134.0	110.0	132.5	110.0	131.3	110.0	130.5	110.0	130.0	110.0	129.8	110.0	126.2	110.0	122.5	110.0	118.8	110.0	115.2	110.0	111.5
72.0	110.0	136.7	110.0	134.2	110.0	132.0	110.0	130.2	110.0	128.7	110.0	127.5	110.0	126.7	110.0	126.2	110.0	126.0	110.0	122.0	110.0	118.0	110.0	114.0	110.0	110.0
78.0	110.0	135.3	110.0	132.5	110.0	130.0	110.0	127.8	110.0	126.0	110.0	124.5	110.0	123.3	110.0	122.5	110.0	122.0	110.0	121.8	110.0	117.5	-	-	-	-
84.0	110.0	134.0	110.0	130.8	110.0	128.0	110.0	125.5	110.0	123.3	110.0	121.5	110.0	120.0	110.0	118.8	110.0	118.0	110.0	117.5	-	-	-	-	-	-
90.0	110.0	132.7	110.0	129.2	110.0	126.0	110.0	123.2	110.0	120.7	110.0	118.5	110.0	116.7	110.0	115.2	110.0	114.0	-	-	-	-	-	-	-	-
96.0	110.0	131.3	110.0	127.5	110.0	124.0	110.0	120.8	110.0	118.0	110.0	115.5	110.0	113.3	110.0	111.5	110.0	110.0	-	-	-	-	-	-	-	-
102.0	110.0	130.0	110.0	125.8	110.0	122.0	110.0	118.5	110.0	115.3	110.0	112.5	110.0	110.0	107.8	107.8	-	-	-	-	-	-	-	-	-	-
108.0	110.0	128.7	110.0	124.2	110.0	120.0	110.0	116.2	110.0	112.7	109.5	109.5	106.7	106.7	-	-	-	-	-	-	-	-	-	-	-	-
114.0	110.0	127.3	110.0	122.5	110.0	118.0	110.0	113.8	110.0	110.0	106.5	106.5	103.3	103.3	-	-	-	-	-	-	-	-	-	-	-	-
120.0	110.0	126.0	110.0	120.8	110.0	116.0	110.0	111.5	107.3	107.3	103.5	103.5	100.0	100.0	-	-	-	-	-	-	-	-	-	-	-	-
126.0	110.0	124.7	110.0	119.2	110.0	114.0	109.2	109.2	104.7	104.7	100.5	100.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
132.0	110.0	123.3	110.0	117.5	110.0	112.0	106.8	106.8	102.0	102.0	97.5	97.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
138.0	110.0	122.0	110.0	115.8	110.0	110.0	104.5	104.5	99.3	99.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
144.0	110.0	120.7	110.0	114.2	108.0	108.0	102.2	102.2	96.7	96.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CHART #2

Design pressure rating for units with glazing B and C (psf)																										
Frame Height (in)	Frame width (in)																									
	24.0		30.0		36.0		42.0		48.0		54.0		60.0		66.0		72.0		78.0		84.0		90.0		96.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
24.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0
30.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0
36.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0
42.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	131.7
48.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	131.3	110.0	126.0
54.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	133.0	110.0	127.0	110.0	121.0
60.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	130.0	110.0	123.3	110.0	116.7
66.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	127.7	110.0	120.3	110.0	113.0
72.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	134.0	110.0	126.0	110.0	118.0	110.0	110.0
78.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	134.0	110.0	133.7	110.0	125.0	-	-	-	-
84.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	133.0	110.0	130.0	110.0	127.7	110.0	126.0	110.0	125.0	-	-	-	-	-	-
90.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	131.3	110.0	127.0	110.0	123.3	110.0	120.3	110.0	118.0	-	-	-	-	-	-	-	-
96.0	110.0	135.0	110.0	135.0	110.0	135.0	110.0	131.7	110.0	126.0	110.0	121.0	110.0	116.7	110.0	113.0	110.0	110.0	-	-	-	-	-	-	-	-
102.0	110.0	135.0	110.0	135.0	110.0	134.0	110.0	127.0	110.0	120.7	110.0	115.0	110.0	110.0	105.7	105.7	-	-	-	-	-	-	-	-	-	-
108.0	110.0	135.0	110.0	135.0	110.0	130.0	110.0	122.3	110.0	115.3	109.0	109.0	103.3	103.3	-	-	-	-	-	-	-	-	-	-	-	-
114.0	110.0	135.0	110.0	135.0	110.0	126.0	110.0	117.7	110.0	110.0	103.0	103.0	96.7	96.7	-	-	-	-	-	-	-	-	-	-	-	-
120.0	110.0	135.0	110.0	131.7	110.0	122.0	110.0	113.0	104.7	104.7	97.0	97.0	90.0	90.0	-	-	-	-	-	-	-	-	-	-	-	-
126.0	110.0	135.0	110.0	128.3	110.0	118.0	108.3	108.3	99.3	99.3	91.0	91.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
132.0	110.0	135.0	110.0	125.0	110.0	114.0	103.7	103.7	94.0	94.0	85.0	85.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
138.0	110.0	134.0	110.0	121.7	110.0	110.0	99.0	99.0	88.7	88.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
144.0	110.0	131.3	110.0	118.3	106.0	106.0	94.3	94.3	83.3	83.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

REVISIONS			
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9020 PICTURE WINDOW  
EXTERIOR VIEW  
REFER TO CHART #3, THIS PAGE, FOR OTHER UNITS RATINGS

DESIGN PRESSURE RATING	IMPACT RATING
+100.0/-120.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ  
WITH GLAZING A AND B

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED CALL OUTS	10/24/12	R.L.
B	REVISED PER NEW TESTING	10/02/13	R.L.
C	REVISED PER MD COMMENTS	03/13/14	R.L.
D	ADDED GEOMETRIC SHAPES	09/04/14	R.L.

CHART #3  
Design pressure rating (psf)

Frame Height (in)	Frame width (in)													
	24.00		30.00		36.00		42.00		48.00		54.00		60.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
24.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
30.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
36.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
42.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
48.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
54.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	143.4	150.0
60.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	133.3	150.0
66.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	145.5	150.0	125.4	150.0
72.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	138.9	150.0	119.0	142.9
78.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	133.8	150.0	114.0	136.8
84.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	129.9	150.0	109.9	131.9
90.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	127.0	150.0	106.7	128.0
96.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	125.0	150.0	104.2	125.0
102.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	123.8	148.6	102.3	122.8
108.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	123.5	148.1	101.0	121.2
114.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	123.5	148.1	100.3	120.3
120.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	123.5	148.1	100.0	120.0

SIGNED: 10/29/2014

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 14-0916-12  
Expiration Date 12-17-2018  
By *Manuel Perez*  
Miami Dade Product Control

**WinDoor**  
INCORPORATED

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ORLANDO, FL 32832  
Phone: 407.481.8400  
Fax: 407.481.0505  
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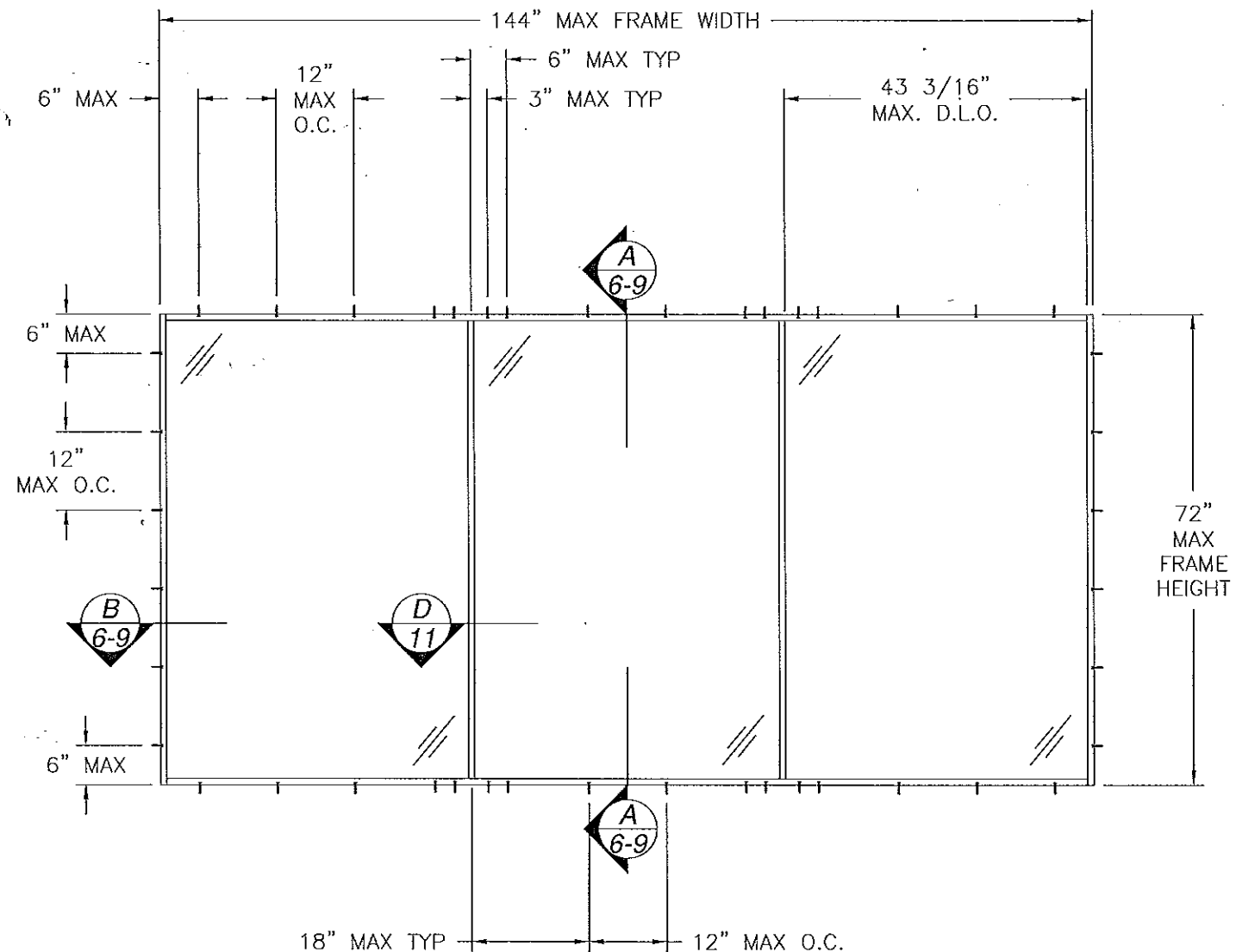
9020 PICTURE WINDOW  
LARGE MISSILE IMPACT  
ELEVATIONS AND CHARTS

DRAWN: A.P. DWG NO. 08-01634 REV D

SCALE NTS DATE 06/20/2012 SHEET 4 OF 11

LUIS R. LOMAS  
No. 62514  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER





**9020 TRIPLE PICTURE WINDOW**  
 EXTERIOR VIEW  
 REFER TO CHART #4, THIS PAGE, FOR OTHER UNITS RATINGS

DESIGN PRESSURE RATING	IMPACT RATING
<b>±85.0PSF</b>	<b>LARGE MISSILE IMPACT</b>

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ  
 WITH GLAZING A, B AND C

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED CALL OUTS	10/24/12	R.L.
B	REVISED PER NEW TESTING	10/02/13	R.L.
C	REVISED PER MD COMMENTS	03/13/14	R.L.
D	ADDED GEOMETRIC SHAPES	09/04/14	R.L.

**CHART #4**  
**Design pressure rating chart (psf)**

Frame Height (in)	Total Frame Width (in)													
	36.00		54.00		72.00		90.00		108.00		126.00		144.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
24.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0
30.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0
36.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0
42.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0
48.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0
54.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0
60.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	119.6	100.0	113.3
66.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	113.3	100.0	103.6	97.1	97.1
72.0	100.0	125.0	100.0	125.0	100.0	125.0	100.0	114.5	100.0	100.7	91.4	91.4	85.0	85.0

SIGNED: 10/29/2014

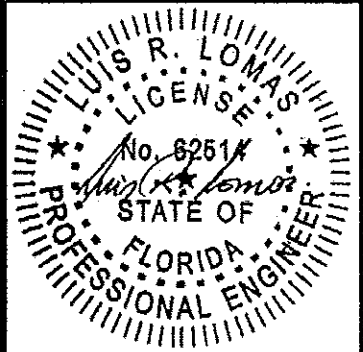
PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. *14-0916.12*  
 Expiration Date *Jan 17, 2018*  
 By *Manuel Perez*  
 Miami Dade Product Control

**WinDoor**  
 INCORPORATED

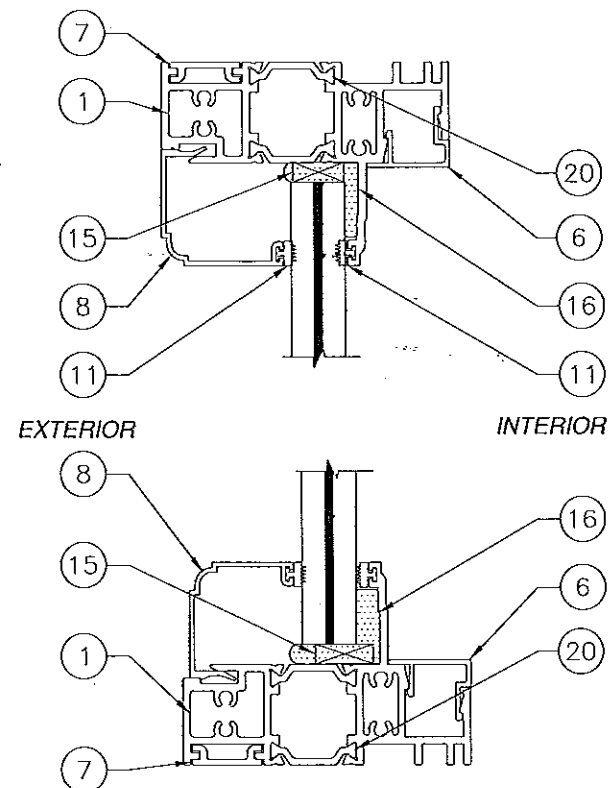
7500 AMSTERDAM DRIVE  
 ORLANDO, FL 32832  
 Phone: 407.481.8400  
 Fax: 407.481.0505  
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9020 PICTURE WINDOW  
 LARGE MISSILE IMPACT  
 ELEVATIONS AND CHARTS

DRAWN: A.P.	DWG NO. 08-01634	REV D
SCALE NTS	DATE 06/20/2012	SHEET 5 OF 11

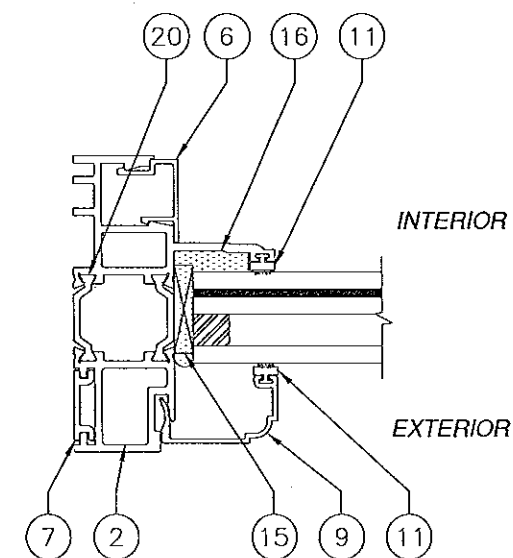


PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	S-9020A1-WDI	FRAME HEAD AND SILL ASSEMBLY	KEYMARK	ALUMINUM 6063-T6
2	S-9020A2-WDI	FRAME JAMB ASSEMBLY	KEYMARK	ALUMINUM 6063-T6
3	S-9020A3-WDI	MULL ASSEMBLY	KEYMARK	ALUMINUM 6063-T6
4	FH-06559	MULL INTERIOR REINFORCEMENT	KEYMARK	ALUMINUM 6005-T6
5	FS-06558	MULL EXTERIOR REINFORCEMENT	KEYMARK	ALUMINUM 6005-T6
6	S-49328	SCREW COVER	KEYMARK	ALUMINUM 6063-T6
7	S-49330	FLUSH ADAPTOR	KEYMARK	ALUMINUM 6063-T6
8	S-49329	9/16" GLASS STOP	KEYMARK	ALUMINUM 6063-T6
9	S-46084	1" GLASS STOP	KEYMARK	ALUMINUM 6063-T6
10	S-46083	1 3/8" GLASS STOP	KEYMARK	ALUMINUM 6063-T6
11	GSVN-07A	GLAZING VINYL	TEAM PLASTICS	80 DUROMETER
12	131014	#8x1" SCREW		STAINLESS STEEL
13		#8x1 3/4" SCREW		STAINLESS STEEL
14		#12x1" SCREW		STAINLESS STEEL
15	121000-12100E1	SETTING BLOCK		RUBBER
16	SIKA 552	URETHANE SEALANT		
17	S-9020A8-WDI	CA RAIL ASSEMBLY	KEYMARK	ALUMINUM 6063-T6
18	S-9020A5-WDI	MEDIUM RAIL ASSEMBLY	KEYMARK	ALUMINUM 6063-T6
19	S-9020A6-WDI	TALL RAIL ASSEMBLY	KEYMARK	ALUMINUM 6063-T6
20	2206	INSULBAR	ENSINGER	TECATHERM 66GF

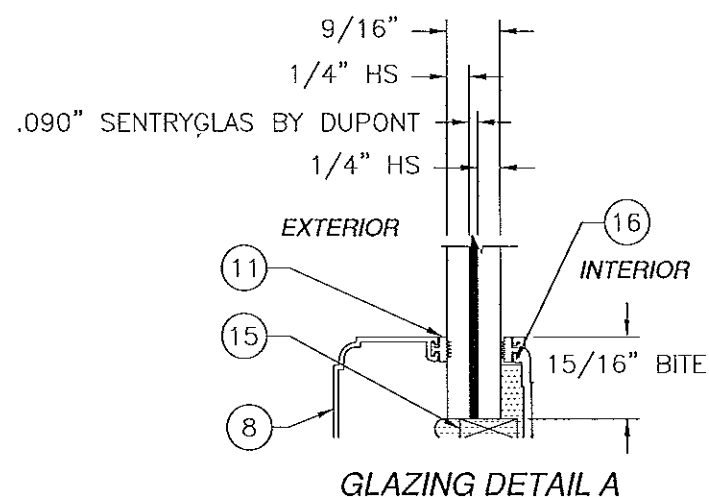


**A**  
**6**  
**VERTICAL SECTION**  
STANDARD/STANDARD RAILS  
FOR APPROVED RAIL COMBINATIONS SEE SHEET 7

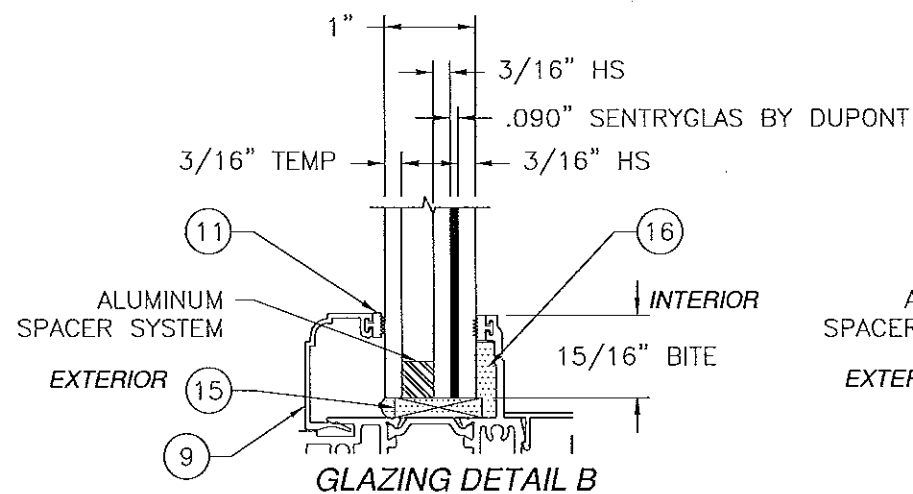
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED CALL OUTS	10/24/12	R.L.
B	REVISED PER NEW TESTING	10/02/13	R.L.
C	REVISED PER MD COMMENTS	03/13/14	R.L.
D	ADDED GEOMETRIC SHAPES	09/04/14	R.L.



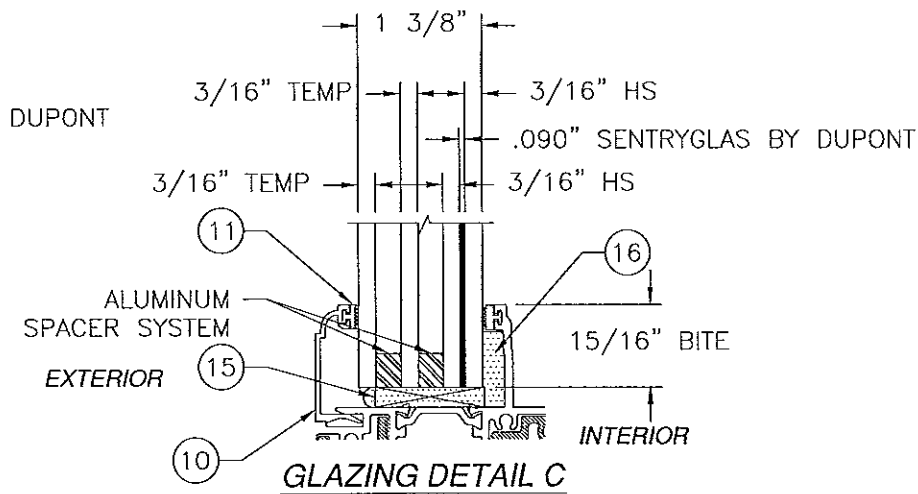
**B**  
**6**  
**HORIZONTAL CROSS SECTION**



**GLAZING DETAIL A**



**GLAZING DETAIL B**



**GLAZING DETAIL C**

SIGNED: 10/29/2014

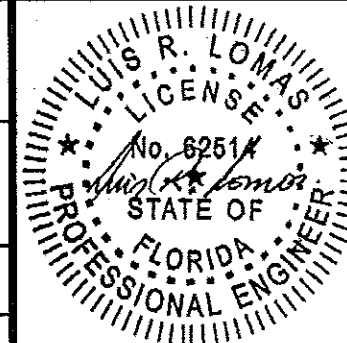
PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 14-0916.12  
Expiration Date Jan 1, 2018  
By *Manuel Perez*  
Miami Dade Product Control

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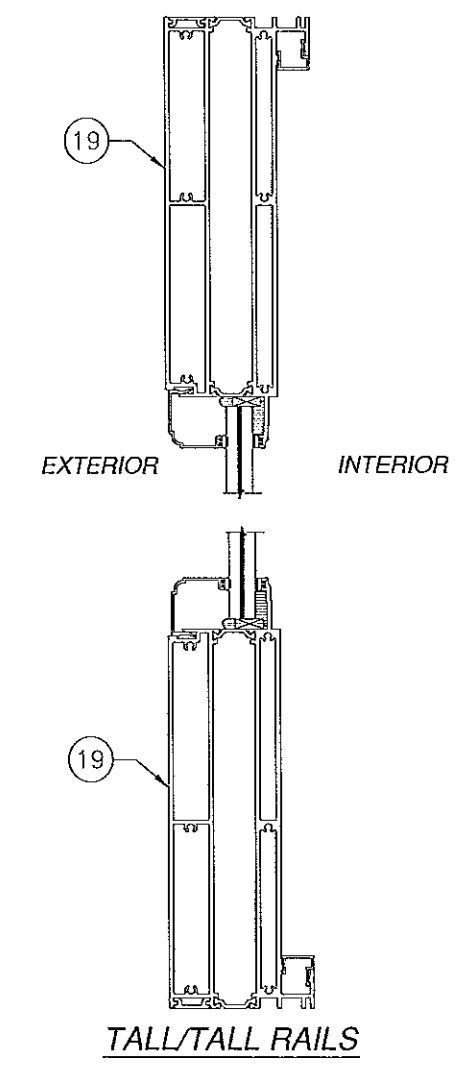
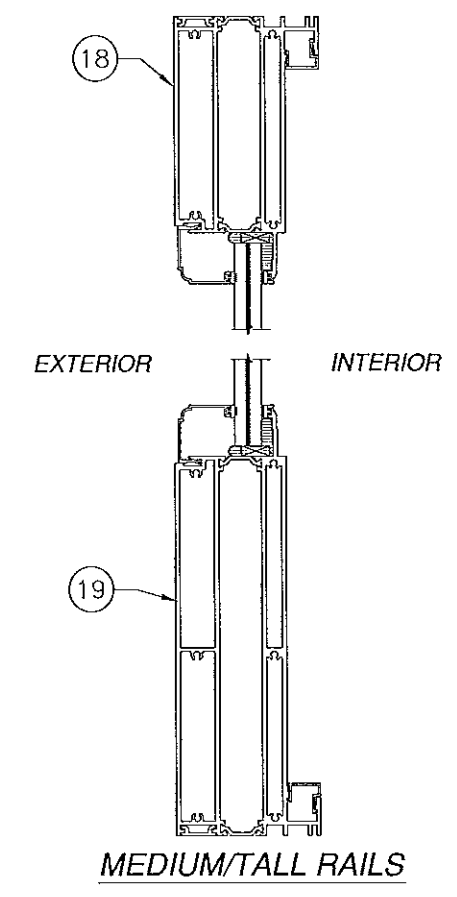
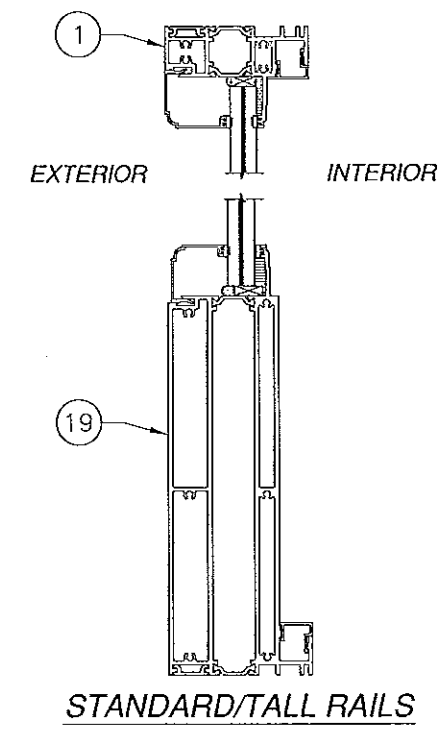
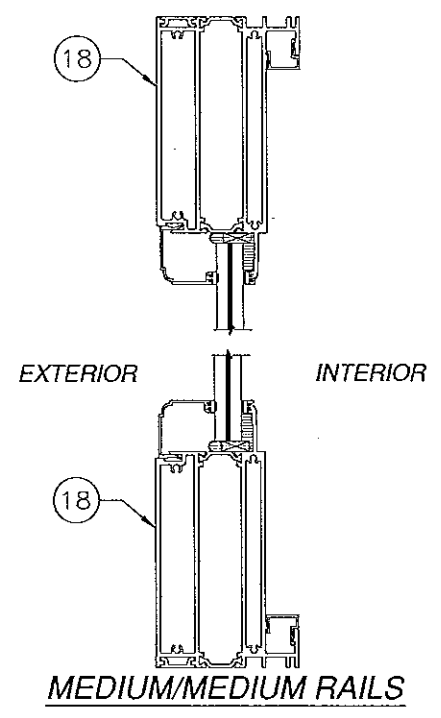
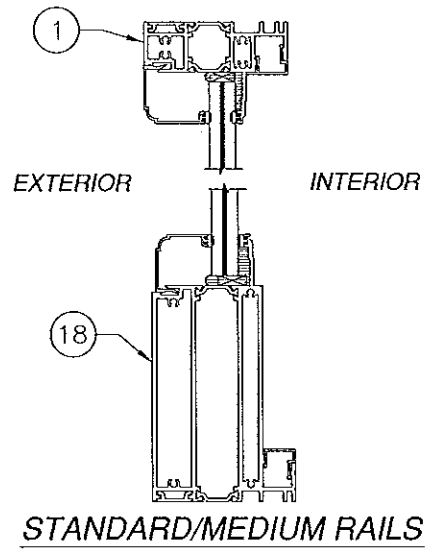
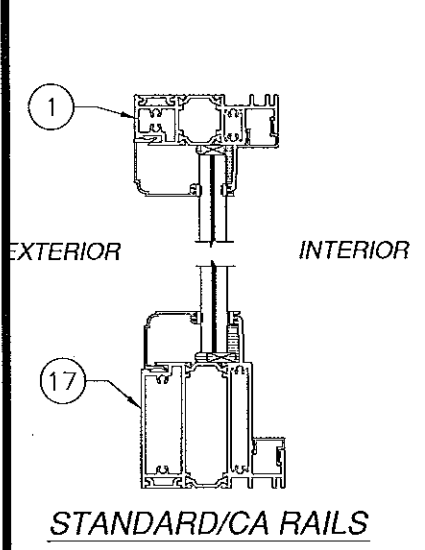
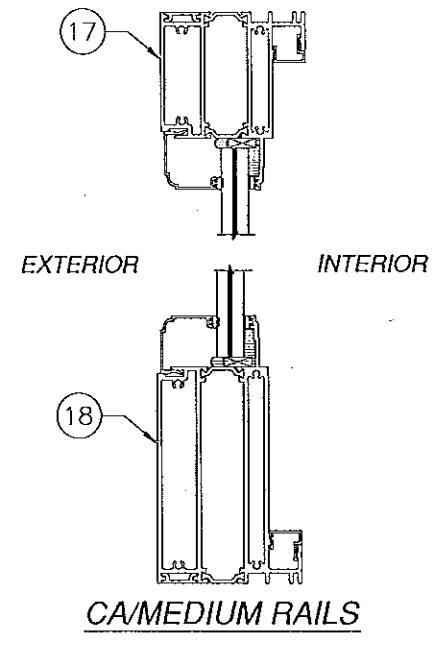
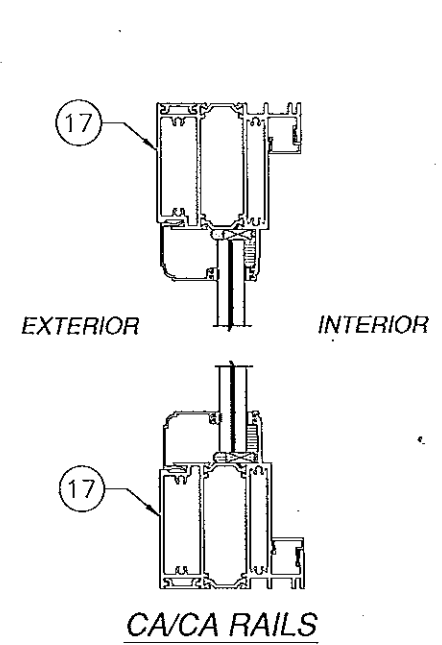
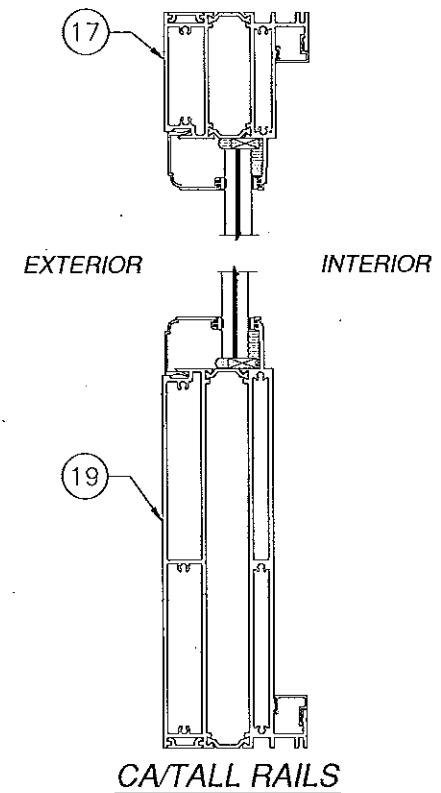
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Fax: 407.481.0505  
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9020 PICTURE WINDOW  
LARGE MISSILE IMPACT  
B.O.M. AND CROSS SECTIONS

DRAWN: A.P. DWG NO. 08-01634 REV D  
SCALE NTS DATE 06/20/2012 SHEET 6 OF 11



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED CALL OUTS	10/24/12	R.L.
B	REVISED PER NEW TESTING	10/02/13	R.L.
C	REVISED PER MD COMMENTS	03/13/14	R.L.
D	ADDED GEOMETRIC SHAPES	09/04/14	R.L.



**APPROVED RAIL COMBINATIONS**  
FOR OTHER ITEMS SEE VERTICAL  
CROSS SECTION SHEET 6

SIGNED: 10/29/2014

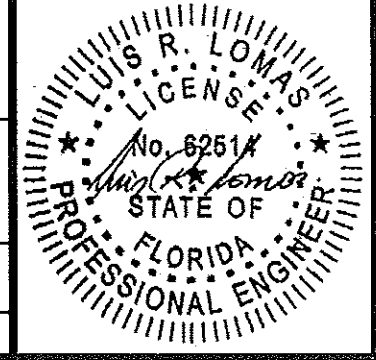
PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 14-0916.12  
Expiration Date Jan 17, 2018  
By *Manuel Brea*  
Miami Dade Product Control

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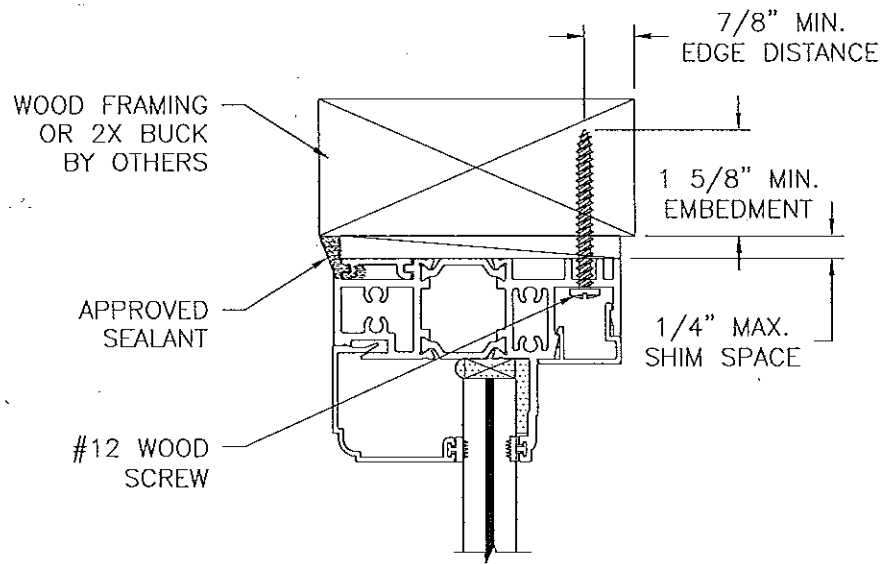
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9020 PICTURE WINDOW  
LARGE MISSILE IMPACT  
APPROVED RAIL COMBINATIONS

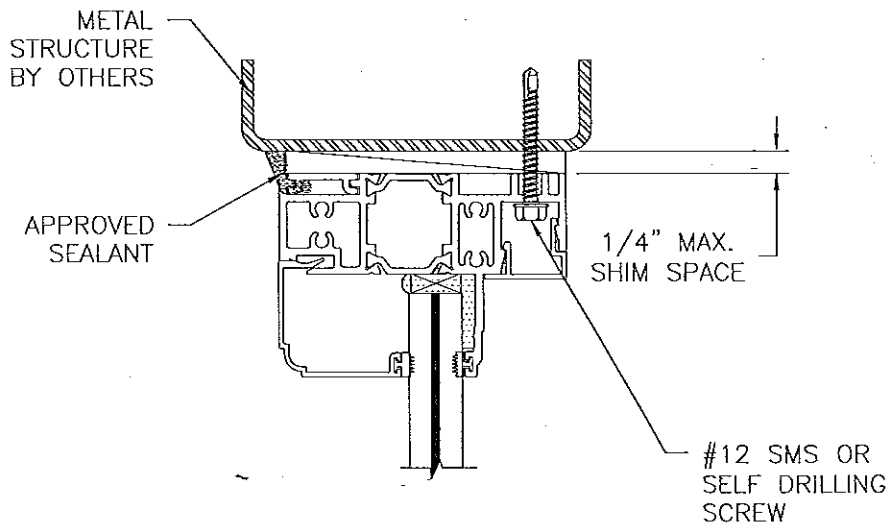
DRAWN: A.P.	DWG NO. 08-01634	REV D
SCALE NTS	DATE 06/20/2012	SHEET 7 OF 11



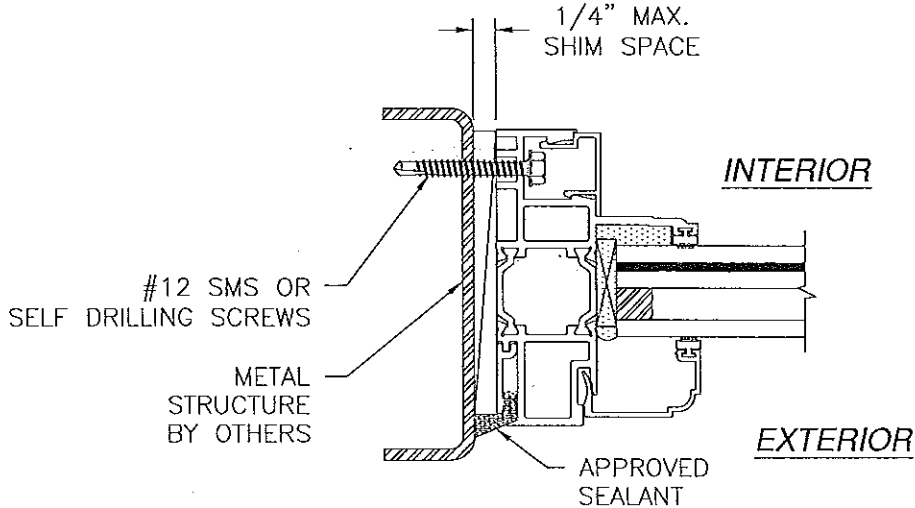
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED CALL OUTS	10/24/12	R.L.
B	REVISED PER NEW TESTING	10/02/13	R.L.
C	REVISED PER MD COMMENTS	03/13/14	R.L.
D	ADDED GEOMETRIC SHAPES	09/04/14	R.L.



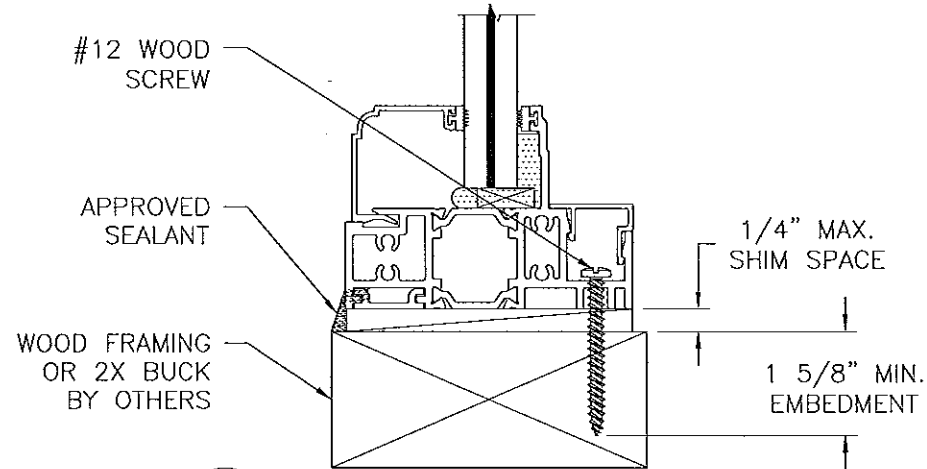
EXTERIOR INTERIOR



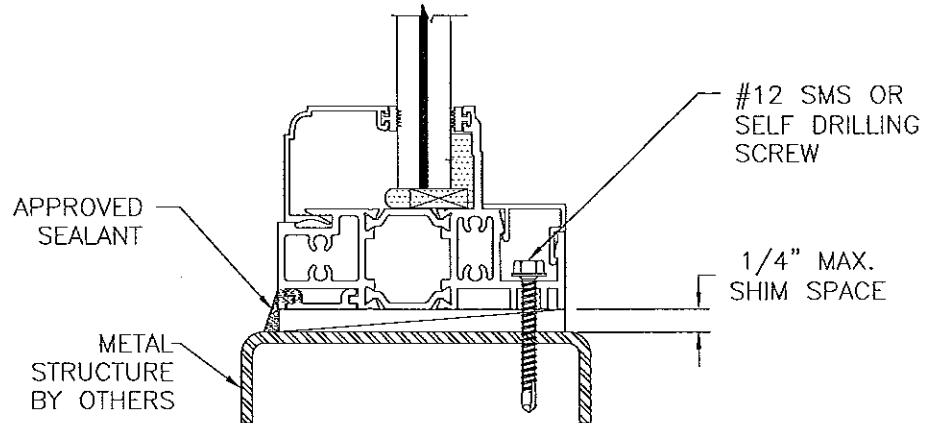
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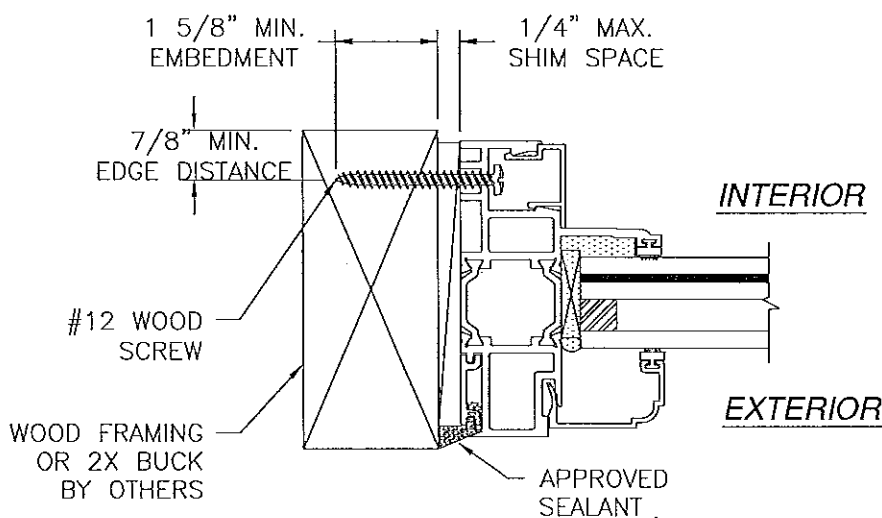
B 8 JAMB INSTALLATION DETAIL  
METAL STRUCTURE INSTALLATION



A 8 VERTICAL CROSS SECTION  
WOOD FRAMING OR 2X BUCK INSTALLATION



A 8 VERTICAL CROSS SECTION  
METAL STRUCTURE INSTALLATION



B 8 JAMB INSTALLATION DETAIL  
WOOD FRAMING OR 2X BUCK INSTALLATION

SIGNED: 10/29/2014

NOTES:  
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.  
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 14-0916-12  
Expiration Date Jan. 17, 2018  
By *Manuel Lopez*  
Miami Trade Product Control

WinDoor

INCORPORATED

7500 AMSTERDAM DRIVE  
ORLANDO, FL 32832  
Phone: 407.481.8400  
Fax: 407.481.0505  
www.windoorinc.com

9020 PICTURE WINDOW  
LARGE MISSILE IMPACT  
INSTALLATION DETAILS

DRAWN: A.P.

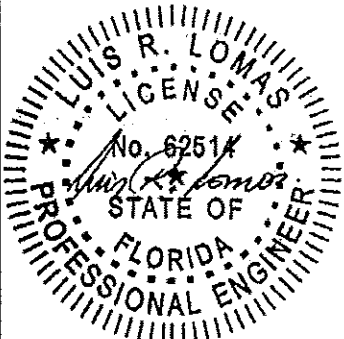
DWG NO. 08-01634

REV D

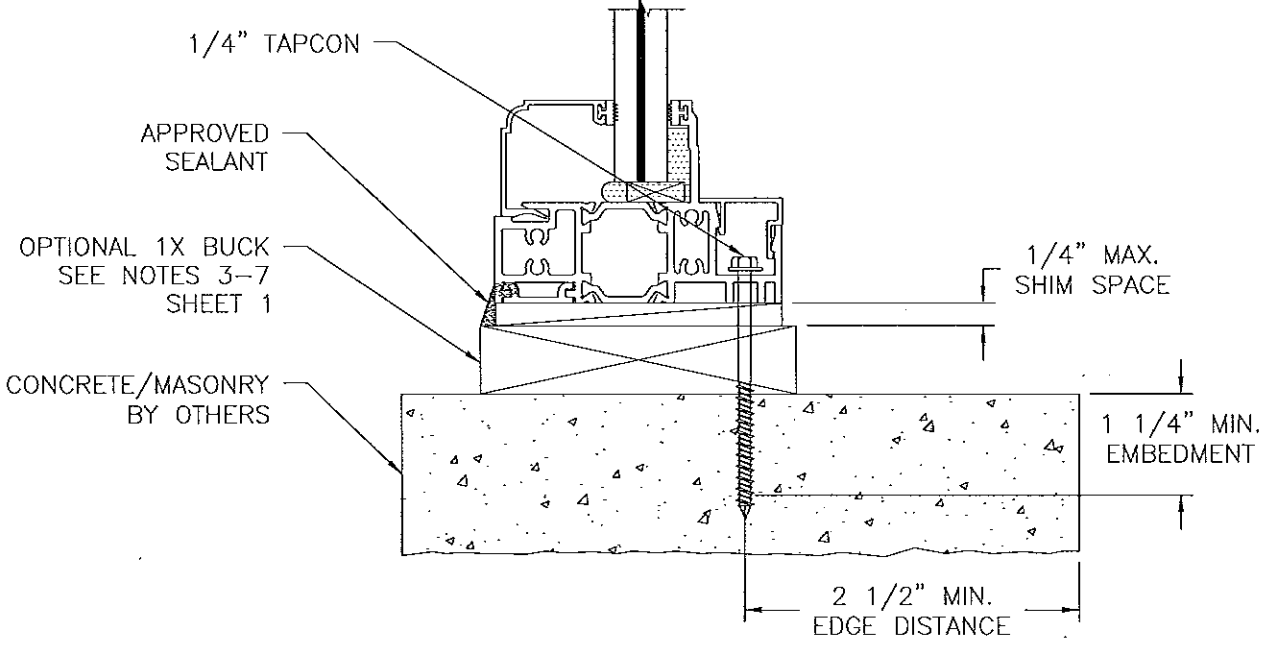
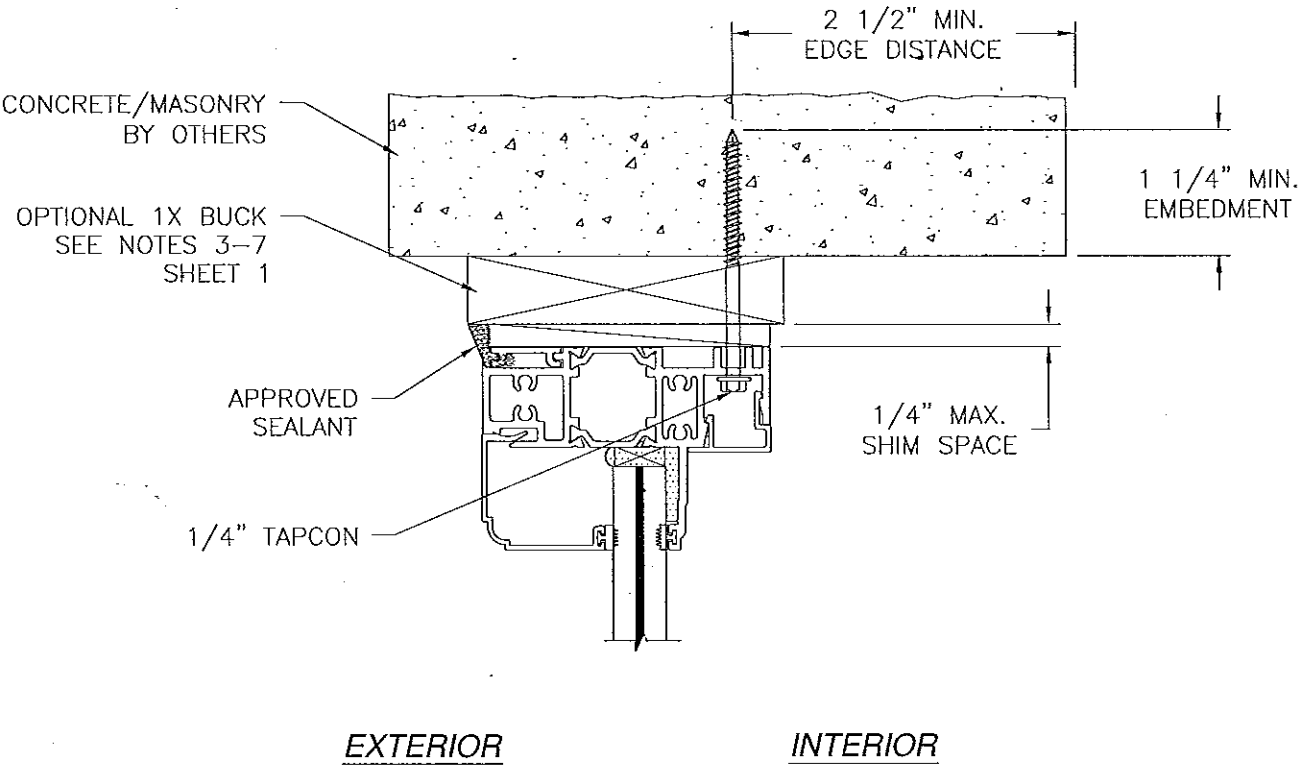
SCALE NTS

DATE 06/20/2012

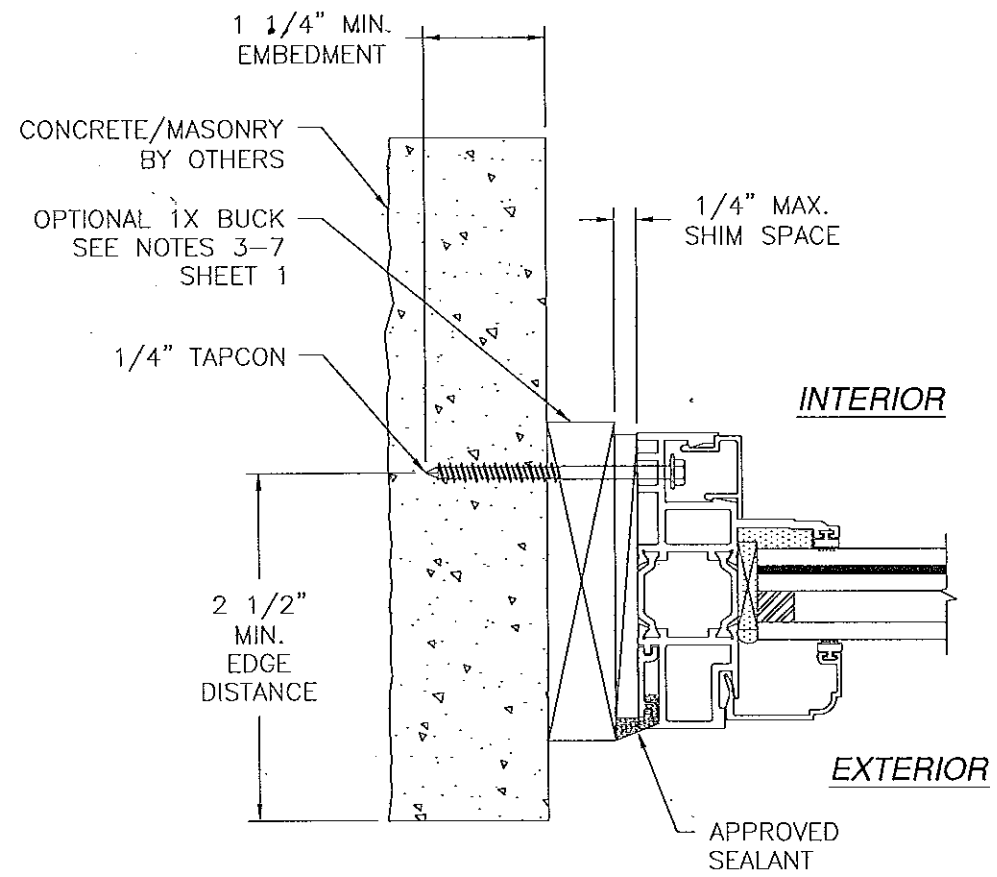
SHEET 8 OF 11



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED CALL OUTS	10/24/12	R.L.
B	REVISED PER NEW TESTING	10/02/13	R.L.
C	REVISED PER MD COMMENTS	03/13/14	R.L.
D	ADDED GEOMETRIC SHAPES	09/04/14	R.L.



**A**  
9  
**VERTICAL CROSS SECTION**  
CONCRETE/MASONRY INSTALLATION



**B**  
9  
**JAMB INSTALLATION DETAIL**  
CONCRETE/MASONRY INSTALLATION

NOTES:  
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2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 10/29/2014

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. *14-0916-12*  
Expiration Date *Jan. 17, 2018*

By *Manuel Perez*  
Miami Dade Product Control

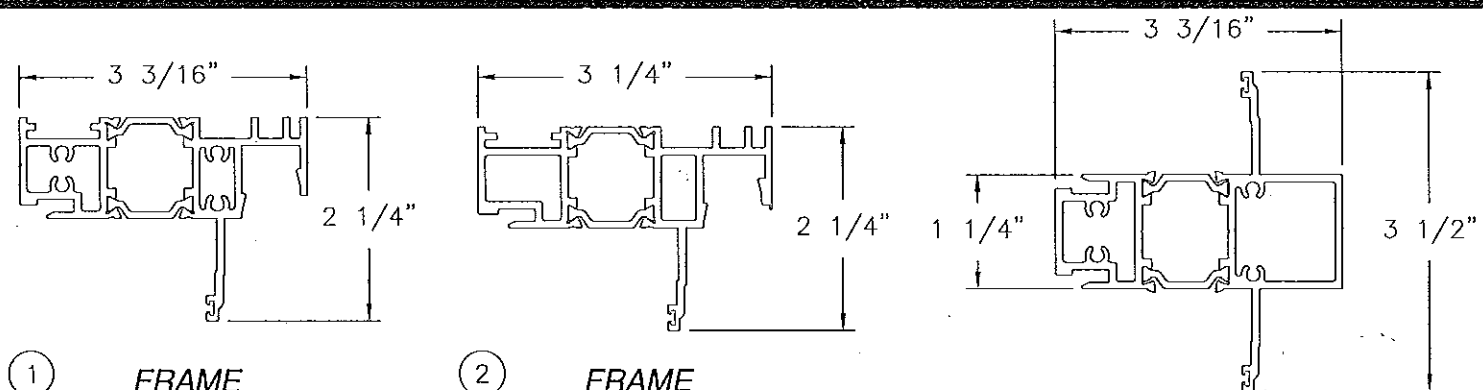
**WinDoor**  
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9020 PICTURE WINDOW  
LARGE MISSILE IMPACT  
INSTALLATION DETAILS

DRAWN: A.P.	DWG NO. 08-01634	REV D
SCALE NTS	DATE 06/20/2012	SHEET 9 OF 11

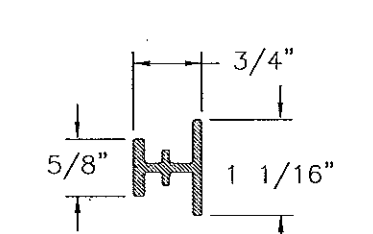
LUIS R. LOMAS  
LICENSE  
No. 62514  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER



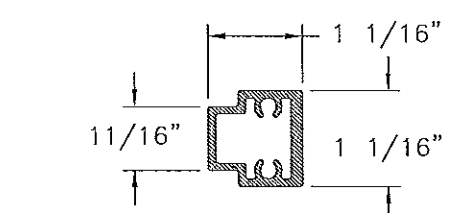
① **FRAME**  
ALUMINUM 6063-T6 .080" THICK

② **FRAME**  
ALUMINUM 6063-T6 .080" THICK

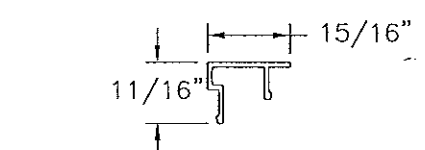
③ **MULL ASSEMBLY**  
ALUMINUM 6063-T6 .080" THICK



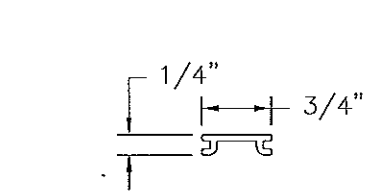
④ **REINFORCEMENT**  
ALUMINUM 6005-T61 .100" THICK



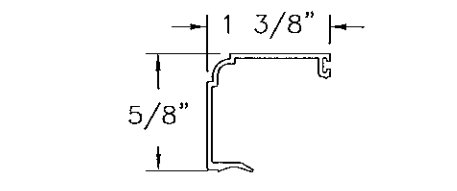
⑤ **REINFORCEMENT**  
ALUMINUM 6005-T61 .080" THICK



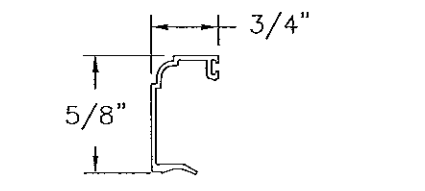
⑥ **SCREW COVER**  
ALUMINUM 6063-T6 .050" THICK



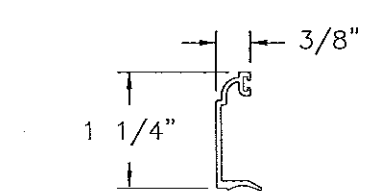
⑦ **FLUSH ADAPTOR**  
ALUMINUM 6063-T6 .065" THICK



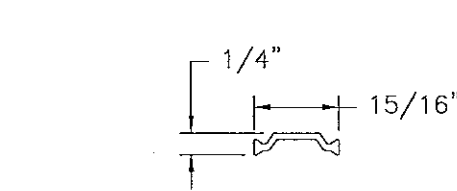
⑧ **9/16" GLASS STOP**  
.063" THICK



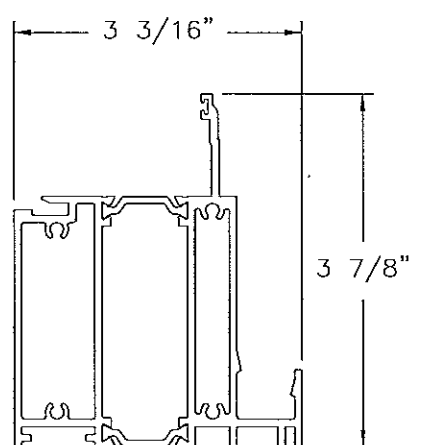
⑨ **1" GLASS STOP**  
.063" THICK



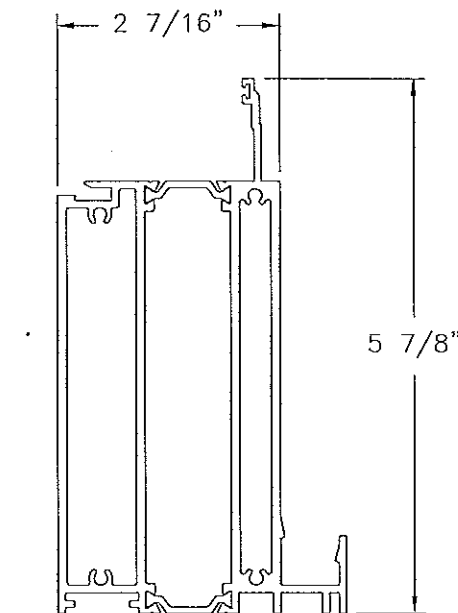
⑩ **1 3/8" GLASS STOP**  
.063" THICK



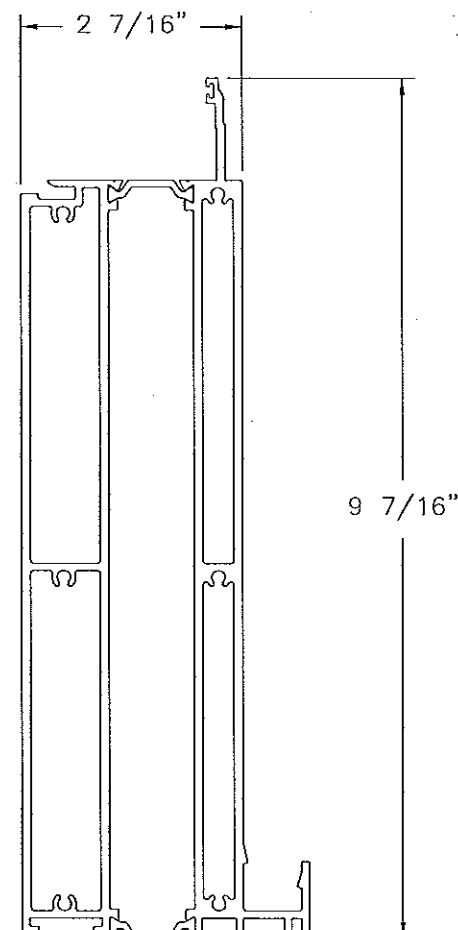
⑫ **INSULBAR**  
TECATHERM 66GF .075" THICK



⑬ **CA RAIL**  
ALUMINUM 6063-T6 .100" THICK



⑭ **MIDDLE RAIL**  
ALUMINUM 6063-T6 .080" THICK



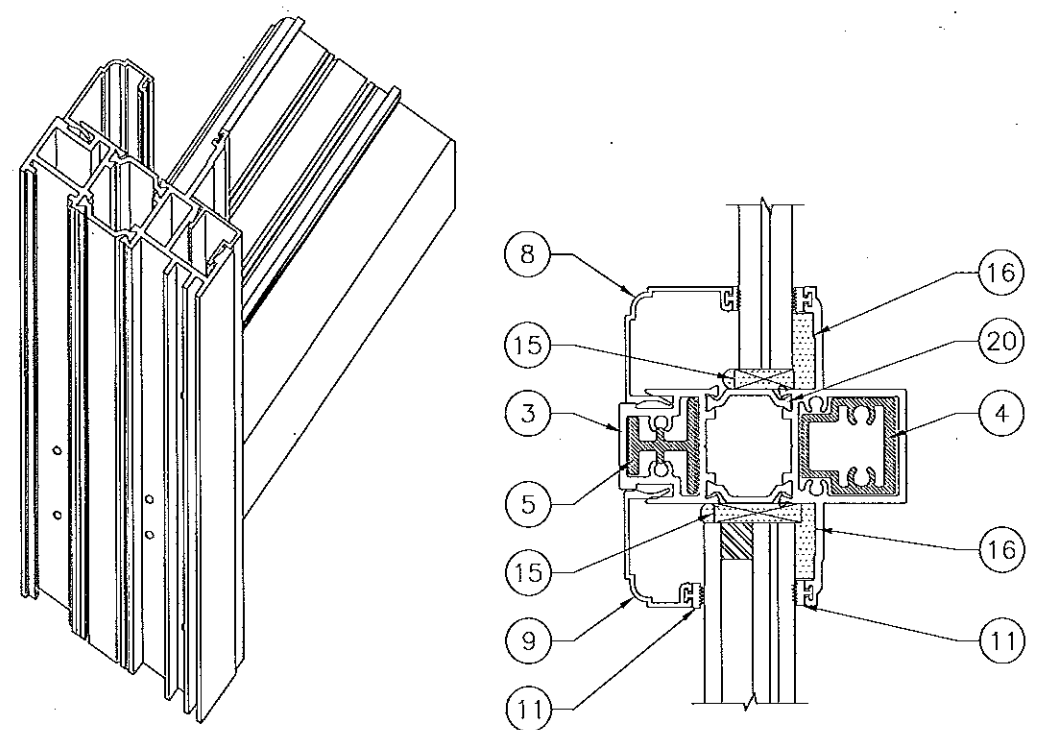
⑮ **TALL RAIL**  
ALUMINUM 6063-T6 .100" THICK

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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D	ADDED GEOMETRIC SHAPES	09/04/14	R.L.

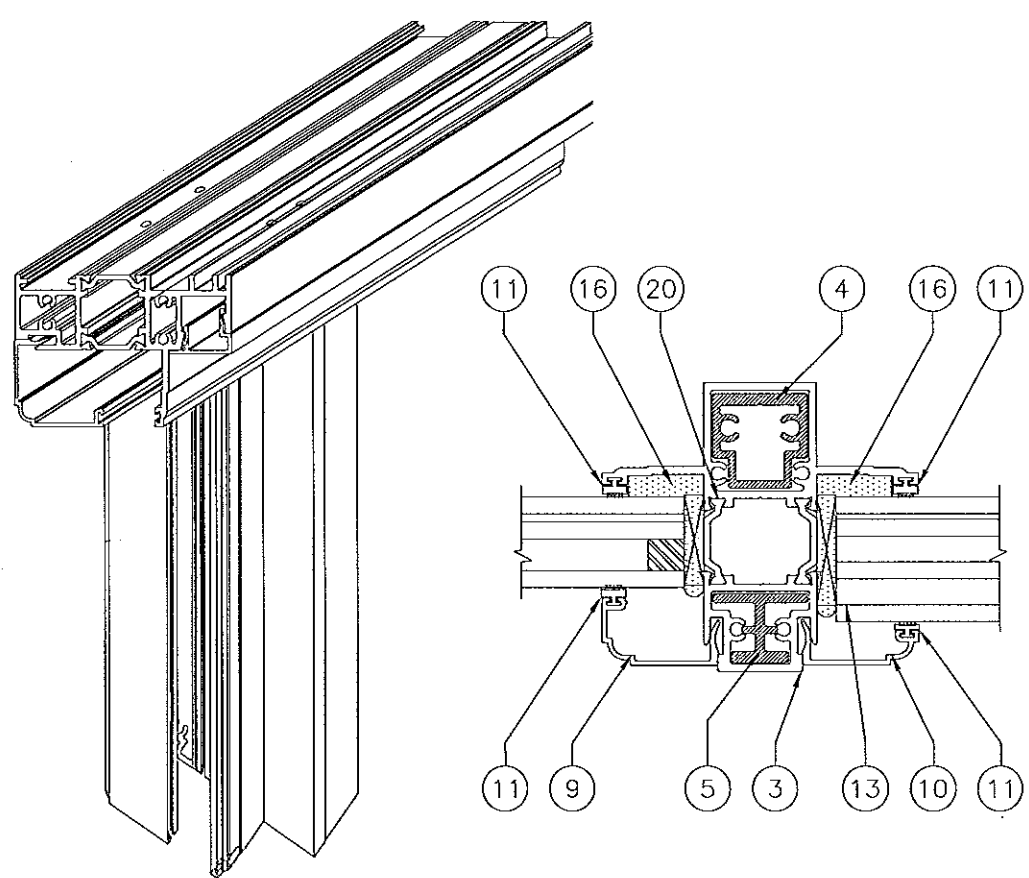
SIGNED: 10/29/2014

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. <u>14-0916-12</u> Expiration Date <u>Jan. 17, 2018</u> By <u>Manuel Diaz</u> Miami Dade Product Control		<b>WinDoor</b> INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 Phone: 407.481.8400 Fax: 407.481.0505 www.windoorinc.com		
9020 PICTURE WINDOW LARGE MISSILE IMPACT COMPONENTS				
DRAWN: A.P.	DWG NO. 08-01634	REV D		
SCALE NTS	DATE 06/20/2012	SHEET 10 OF 11		

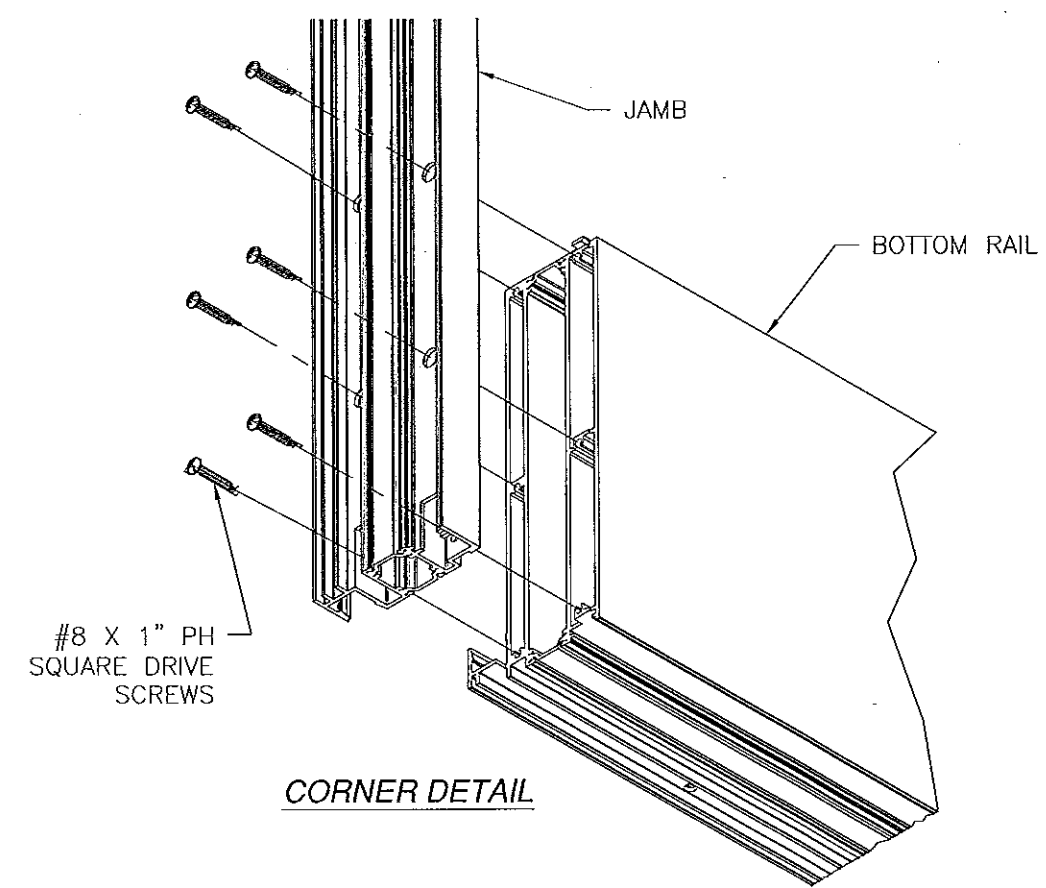
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED CALL OUTS	10/24/12	R.L.
B	REVISED PER NEW TESTING	10/02/13	R.L.
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D	ADDED GEOMETRIC SHAPES	09/04/14	R.L.



**C**  
11 HORIZONTAL INTEGRAL MULLION



**D**  
11 VERTICAL INTEGRAL MULLION



CORNER DETAIL

SIGNED: 10/29/2014

PRODUCT REVISED  
as complying with the Florida  
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Expiration Date Jan 17, 2018

By *[Signature]*  
Miami Dade Product Control

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INCORPORATED

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9020 PICTURE WINDOW  
LARGE MISSILE IMPACT  
MULLION INSTALLATION DETAILS

DRAWN: A.P.	DWG NO. 08-01634	REV D
SCALE NTS	DATE 06/20/2012	SHEET 11 OF 11

LUIS R. LOMAS  
LICENSED PROFESSIONAL ENGINEER  
No. 62514  
STATE OF FLORIDA